

## LIST OF REFERENCE NUMERALS

|    |               |                                    |
|----|---------------|------------------------------------|
| 5  | 1             | Workpiece machining device         |
|    | 2             | Manipulator/robot                  |
|    | 2.1           | Robot arm                          |
|    | 2.2           | Distal end (of 2.1)                |
|    | 2.3           | Control unit                       |
| 10 | 2.4           | Memory unit                        |
|    | 2.5           | Determination unit                 |
|    | 2.6           | Determination means                |
|    | 2.7           | Processor means                    |
|    | 2.8           | Transfer medium                    |
| 15 | 3             | Tool/laser machining tool          |
|    | 3.1           | Scanner system                     |
|    | 3.2, 3.3      | Deflection mirrors                 |
|    | 3.4, 3.5      | Drive                              |
|    | 3.6           | Focussing optics                   |
| 20 | 3.7           | Control unit                       |
|    | 3.8           | Coupling in element                |
|    | 4             | Workpiece                          |
|    | 5             | Laser beam                         |
|    | 6, 6'         | Portion (of B)                     |
| 25 | B             | Machining path                     |
|    | B'            | Movement path                      |
|    | B''           | Mobility tube                      |
|    | $\Delta B$    | Deviation                          |
|    | $B_J, B_{J'}$ | Continuous portions                |
| 30 | E             | Coupling in (of laser beam 5)      |
|    | $F_1-F_9$     | Degree of freedom                  |
|    | J             | Machining geometry (step function) |
|    | P             | IPO point                          |
|    | S1-S9         | Method stages                      |

|         |                       |
|---------|-----------------------|
| t       | Machining time        |
| T       | IPO cycle time        |
| X, Y, Z | Cartesian coordinates |